Remarks begin on page 7 of this paper.

Amendments to the Specification

IN THE TITLE:

Please replace the title with the following title:

--COMPUTER-IMPLEMENTED SYSTEM AND METHOD FOR ANALYZING NUCLEAR

MAGNETIC RESONANCE DATA--.

IN THE SPECIFICATION:

Please enter the substitute specification attached herewith as Exhibit A. The substitute

specification is not believed to contain new matter. A marked-up copy of the original specification,

showing the changes implemented in the substitute specification, is attached as Exhibit B.

IN THE ABSTRACT:

Please replace the Abstract of the Disclosure with the following Abstract of the Disclosure:

--ABSTRACT OF THE DISCLOSURE

A computer-implemented system and method for analyzing nuclear magnetic resonance data

are disclosed. The NMR data contains at least one relaxation signal of a sample. The system and

method separates the NMR data into at least two parts that are differently dependent upon an echo

time.--